

Project Design Phase II
Solution Requirements
(Functional & Non-functional)

Date	16 October 2022
Team ID	PNT2022TMID11870
Project Name	Project – Car Resale Value Prediction
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	<ul style="list-style-type: none">▪ Registration through Form▪ Registration through Gmail▪ Registration through Instagram▪ Registration through Facebook
FR-2	User Confirmation	<ul style="list-style-type: none">▪ Confirmation via Email▪ Confirmation via Message
FR-3	User Profile	<ul style="list-style-type: none">▪ View account details▪ Change password
FR-4	Car details	<ul style="list-style-type: none">▪ Adding the new car▪ Getting car details▪ View and update details
FR-5	Maintain database	<ul style="list-style-type: none">▪ Store car details in car database▪ Store user details in user database
FR-6	Value prediction	<ul style="list-style-type: none">▪ Predict the value of the resale car using the model and details entered▪ Display the predicted value
FR-7	Feedback	<ul style="list-style-type: none">▪ Feedback through form

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">▪ User-friendly UI▪ Clear instructions and sample examples will be provided▪ Easy process flow to predict a value
NFR-2	Security	<ul style="list-style-type: none">▪ User authentication while entering website▪ No information is shared with the third party▪ User can see only his details
NFR-3	Reliability	<ul style="list-style-type: none">▪ Data will be stored and replicated so that data loss can be avoided▪ Rate of occurrence of failure is very less
NFR-4	Performance	<ul style="list-style-type: none">▪ Quick prediction results▪ Fast website loading▪ Efficient ML algorithm to provide accurate result with less time complexity
NFR-5	Availability	<ul style="list-style-type: none">▪ Application can be accessed from both mobile and desktop▪ Single page failure does not affect the whole website▪ Uninterrupted user services
NFR-6	Scalability	<ul style="list-style-type: none">▪ Able to handle large amounts of data and traffic globally without failure▪ Database can be scaled according to the usage in a cost-effective manner